INDEX TO VOLUME XXIV

INDEX TO AUTHORS, WITH TITLES

Abrahams, Harold J. The Compendium Pharmaceuticum of Jean Francois Coste 374
Baur, J. R. See Diaz-Colon et al. 403
Beal, Jack L. See Tidwell et al. 47
Bemis, W. P. See Francis and Bemis 325
Blomster, R. N. See Kim et al. 42
Bougas, Plato G. See Hartmann and Bougas 443
Bovey, R. W. See Diaz-Colon et al. 403
Boyd, Claude E. Vascular aquatic plants for mineral nutrient removal from polluted waters 95
Cunningham, Richard P. See Devlin and Cunningham 369
Davies, W. N. L. The Carob tree and its importance in the agricultural economy of Cyprus 460
Dechary, Joseph M. See proteases and protease inhibitors 113
Dennell, R. W. Seeds from a medieval sewer in Woolster Street, Plymouth 151
de Rios, Marlene Dobkin. Banisteriopsis in witchcraft and healing activities in Iquitos, Peru 296
Devlin, Robert M. and Richard P. Cunningham. Effect of 2-chloroethylphosphonic acid on enzyme induction in barley endosperm 369
Diaz-Colon, J. D., J. R. Baur, and R. W. Bovey. Some characteristics of a growth inhibitory factor in Yaupon fruit 403
Dorsett, Charles I. See Machel and Dorsett 51
Duke, James A. Ethnobotanical observations on the Chóco Indians 344
Farnsworth, N. R. See Kim et al. 42
Fong, H. H. S. See Kim et al. 42
Francis, R. R. and W. P. Bemis. A cytomorphological study of male sterility in a mutant of *Cucurbita maxima* Duch. 325
Frost, Melvin J. and B. Ira Judd. Plant explorer of the Americas 471
Gade, Daniel W. Ethnobotany of Cañihua (*Chenopodium pallicicaule*), rustic seed crop of the Altiplano 55
Gaertner, Erika E. Breadstuff from fir (*Abies balsamea*) 69
Hartmann, Hudson T. and Plato G. Bougas. Olive production in Greece 443
Hawes, J. G. The origins of agriculture 131
Hemmerly, Thomas E. Economic uses of eastern red cedar 39
Hu, Shui-Ying. Dendrobium in Chinese medicine 165
Hymowitz, T. On the domestication of the soybean 408
Jain, S. K. and C. R. Tarafder. Medicinal plant-lore of the Santals 241
Jalaluddin, M. Further observations on the bacteriology of jute retting 137
Johnston, Alex. Blackfoot Indian utilization of the flora of the northwestern Great Plains 301
Judd, B. Ira. See Frost and Judd 471
Kim, H. K., R. N. Blomster, H. H. S. Fong, and N. R. Farnsworth. *Catharanthus* alkaloids. XXIII. The isolation of tetrahydroalstonine, vindorosine, and ursolic acid from *C. trichophyllus* 42
Kimber, Clarissa T. Blue Mahoe, a case of incipient plant domestication 233
La Barre, Weston. Old and New World narcotics: a statistical question and an ethnological reply 73
Lamba, S. S. Indian piscicidal plants 134
Li, Hui-Lin. The origin of cultivated plants in Southeast Asia 3
Machel, Albert R. and Charles I. Dorsett. Cyanide analyses of peaches 51
Marafioti, Richard Lynn. The meaning of generic names of important economic plants 189
Martin, Franklin W. and Henry Y. Nakasone. The edible species of *Passiflora* 333
Martin, Richard T. The role of Coca in the history, religion, and medicine of South American Indians 422
Mehra, K. L. See Nayar and Mehra 20
Morton, Julia F. Tentative correlations of plant usage and esophageal cancer zones 217
Nakasone, Henry Y. See Martin and Nakasone 333
Nayar, N. M. and K. L. Mehra. Sesame: its uses, botany, cytogenetics, and origin 20
Nelson, Thomas C. See Sternitzke and Nelson 142
Nene, Y. L. See Thapliyal and Nene 283
Patel, Dhanooprasad G. See Tidwell et al. 47
Patil, Popat N. See Tidwell et al. 47
Prance, Ghillean T. Notes on the use of plant hallucinogens in Amazonian Brazil 62
Raffauf, Robert F. Some notes on the distribution of alkaloids in the Plant Kingdom 34
Reichel-Dolmatoff, G. Notes on the cultural extent of the use of Yajé (*Banisteriopsis caapi*) among the Indians of the Vaupés, Colombia 32
Rense, William C. The perique tobacco industry of St. James Parish, Louisiana: a world monopoly 123
Salser, J. K., Jr. Cubeo acculturation to Coca and its social implications 182
Sharp, W. Curtis. New plants for conservation 53
Singh, L. B. Utilization of saline-alkali soil without prior reclamation—*Rosa damascena*, its botany, cultivation and utilization 175
Singh, L. B. Utilization of saline-alkali soils for

INDEX TO VOLUME XXIV

INDEX TO AUTHORS, WITH TITLES

Abrahams, Harold J. The Compendium Pharmaceuticum of Jean Francois Coste 374
Baur, J. R. See Diaz-Colon et al. 403
Beal, Jack L. See Tidwell et al. 47
Bemis, W. P. See Francis and Bemis 325
Blomster, R. N. See Kim et al. 42
Bougas, Plato G. See Hartmann and Bougas 443
Bovey, R. W. See Diaz-Colon et al. 403
Boyd, Claude E. Vascular aquatic plants for mineral nutrient removal from polluted waters 95
Cunningham, Richard P. See Devlin and Cunningham 369
Davies, W. N. L. The Carob tree and its importance in the agricultural economy of Cyprus 460
Dechary, Joseph M. See proteases and protease inhibitors 113
Dennell, R. W. Seeds from a medieval sewer in Woolster Street, Plymouth 151
de Rios, Marlene Dobkin. Banisteriopsis in witchcraft and healing activities in Iquitos, Peru 296
Devlin, Robert M. and Richard P. Cunningham. Effect of 2-chloroethylphosphonic acid on enzyme induction in barley endosperm 369
Diaz-Colon, J. D., J. R. Baur, and R. W. Bovey. Some characteristics of a growth inhibitory factor in Yaupon fruit 403
Dorsett, Charles I. See Machel and Dorsett 51
Duke, James A. Ethnobotanical observations on the Chóco Indians 344
Farnsworth, N. R. See Kim et al. 42
Fong, H. H. S. See Kim et al. 42
Francis, R. R. and W. P. Bemis. A cytomorphological study of male sterility in a mutant of *Cucurbita maxima* Duch. 325
Frost, Melvin J. and B. Ira Judd. Plant explorer of the Americas 471
Gade, Daniel W. Ethnobotany of Cañihua (*Chenopodium pallicicaule*), rustic seed crop of the Altiplano 55
Gaertner, Erika E. Breadstuff from fir (*Abies balsamea*) 69
Hartmann, Hudson T. and Plato G. Bougas. Olive production in Greece 443
Hawes, J. G. The origins of agriculture 131
Hemmerly, Thomas E. Economic uses of eastern red cedar 39
Hu, Shui-Ying. Dendrobium in Chinese medicine 165
Hymowitz, T. On the domestication of the soybean 408
Jain, S. K. and C. R. Tarafder. Medicinal plant-lore of the Santals 241
Jalaluddin, M. Further observations on the bacteriology of jute retting 137
Johnston, Alex. Blackfoot Indian utilization of the flora of the northwestern Great Plains 301
Judd, B. Ira. See Frost and Judd 471
Kim, H. K., R. N. Blomster, H. H. S. Fong, and N. R. Farnsworth. *Catharanthus* alkaloids. XXIII. The isolation of tetrahydroalstonine, vindorosine, and ursolic acid from *C. trichophyllus* 42
Kimber, Clarissa T. Blue Mahoe, a case of incipient plant domestication 233
La Barre, Weston. Old and New World narcotics: a statistical question and an ethnological reply 73
Lamba, S. S. Indian piscicidal plants 134
Li, Hui-Lin. The origin of cultivated plants in Southeast Asia 3
Machel, Albert R. and Charles I. Dorsett. Cyanide analyses of peaches 51
Marafioti, Richard Lynn. The meaning of generic names of important economic plants 189
Martin, Franklin W. and Henry Y. Nakasone. The edible species of *Passiflora* 333
Martin, Richard T. The role of Coca in the history, religion, and medicine of South American Indians 422
Mehra, K. L. See Nayar and Mehra 20
Morton, Julia F. Tentative correlations of plant usage and esophageal cancer zones 217
Nakasone, Henry Y. See Martin and Nakasone 333
Nayar, N. M. and K. L. Mehra. Sesame: its uses, botany, cytogenetics, and origin 20
Nelson, Thomas C. See Sternitzke and Nelson 142
Nene, Y. L. See Thapliyal and Nene 283
Patel, Dhanooprasad G. See Tidwell et al. 47
Patil, Popat N. See Tidwell et al. 47
Prance, Ghillean T. Notes on the use of plant hallucinogens in Amazonian Brazil 62
Raffauf, Robert F. Some notes on the distribution of alkaloids in the Plant Kingdom 34
Reichel-Dolmatoff, G. Notes on the cultural extent of the use of Yajé (*Banisteriopsis caapi*) among the Indians of the Vaupés, Colombia 32
Rense, William C. The perique tobacco industry of St. James Parish, Louisiana: a world monopoly 123
Salser, J. K., Jr. Cubeo acculturation to Coca and its social implications 182
Sharp, W. Curtis. New plants for conservation 53
Singh, L. B. Utilization of saline-alkali soil without prior reclamation—*Rosa damascena*, its botany, cultivation and utilization 175
Singh, L. B. Utilization of saline-alkali soils for

agro-industry without prior reclamation 439
Sternitzke, Herbert S. and Thomas C. Nelson. The southern pines of the United States 142
Tabor, Edward. Plant poisons in Shakespeare 81
Tarafder, C. R. See Jain and Tarafder 241
Thapliyal, P. N. and Y. L. Nene. Influence of growth-stage of *Anagallis arvensis* on its fungitoxicity 283
Tidwell, Robert H., Jack L. Beal, Dhanooprasad G. Patel, Arthur Tye, and Popat N. Patil. A study of the cyanogenetic content and toxicity of the fruit of selected species of *Cotoneaster* 47
Tye, Arthur. See Tidwell et al. 47
van Harten, A. M. Melegueta pepper 208
Walton, James W. Muinane diagnostic use of narcotics 187
Weiner, Michael A. Notes on some medicinal plants of Fiji 279
Wheeler, Margaret A. Siona use of Chambira Palm fiber 180
Wilken, Gene C. The ecology of gathering in a Mexican farming region 286
Williams, Louis O. A yellow food dye—*Escobedia* 459
Williams, Louis O. Jalap or Veracruz Jalap and its allies 399
Winters, Harold F. Our hardy *Hibiscus* species as ornamentals 155

INDEX TO REVIEWS AND NOTICES

Akehurst, B. C. Tobacco; review 482
Announcement: Advanced Science Seminar in Tropical Botany 207
Briggs, David and Stuart M. Walters. Plant variation and evolution; review 479
Brothwell, Don and Patricia Brothwell. Food in antiquity; review 481
Brothwell, Patricia. See Brothwell and Brothwell; review 481
Brücke, F. Th. v., O. Hornykiewicz, and E. B. Sigg. The pharmacology of psychotherapeutic drugs; review 481
Cárdenas, Martín. Manual de plantas económicas de Bolivia; review 107
Dijkman, Marinus J. Obituary 373
Dore, William G. Wild rice; review 481
Elting, Mary and Michael Folsom. The mysterious grain—science in search of the origin of corn; review 482
Evans, L. T. (editor). The induction of flowering. Some case histories; review 484
Folsom, Michael. See Elting and Folsom; review 482
Greguss, Pal. Xylotomy of the living cycads with a description of their leaves and epidermis; review 108
Gunkel, James E. (editor). Current topics in plant science; review 484
Hardin, Clifford M. (editor). Overcoming world hunger; review 229
Harlow, William M. and Ellwood S. Harrar. Textbook of dendrology; review 104
Harrar, Ellwood S. See Harlow and Harrar; review 104
Hawkes, J. G. and J. P. Hjerting. The potatoes of Argentina, Brazil, Paraguay, and Uruguay; review 367
Heiser, Charles B. Jr. Nightshades, the paradoxical plants; review 230
Hornykiewicz, O. See v. Brücke et al., review 481
Hutchinson, J. Evolution and phylogeny of flowering plants. Dicotyledons: facts and theory; review 231
Jaynes, Richard A. (editor). Handbook of North American nut trees; review 227
Jeffrey, C. An introduction to plant taxonomy; review 106
Kuijt, Job. The biology of parasitic flowering plants; review 229
Morley, Thomas. Spring flora of Minnesota; review 106
Notices
  Botanical Museum Leaflets, Harvard University 398
  News of the Society 1, 442
  Origins and aims of the International Society for Tropical Root Crops 402
  Plant introduction numbers 438
  Symposium on wood extractives 368
Obituaries
  Marinus J. Dijkman 373
  J. J. Ochse 368
Ochse, Dr. J. J. Obituary 368
Parry, John W. Spices. Vol. 1; review 485
Pennington, Campbell W. The Tepehuan of Chihuahua: their material culture; review 228
Preston, Richard J., Jr. Rocky Mountain trees; review 110
Rosengarten, Frederic, Jr. The book of spices; review 109
Schofield, W. B. Some common mosses of British Columbia; review 107
Seymour, Frank Conkling. The flora of New England; review 107
Sigg, E. B. See v. Brücke et al.; review 481
Takhtajan, Armen. Flowering plants. Origin and dispersal; review 480
The Wealth of India; raw materials. Vol. 8 (Ph-Re); review 480
Tindall, H. D. Commercial vegetable growing; review 110
Wagner, H. Rauschgift-Drogen; review 227
Walters, Stuart M. See Briggs and Walters; review 479
Ware, G. W. Producing vegetable crops; review 104

XUM

INDEX TO GENERIC AND SPECIFIC NAMES

Abelmoschus esculentus 354
Abies 189; balsamea 69–72; lasiocarpa 304
Abuta 189
Abutilon 189; avicennae 11, 17; indicum 243
Acacia 189; arabica 243; caesia 243; catechu 243; farnesiana 243; intsia 243; pennata 135
Acer 189; negundo var interius 315
Achillea millefolium 320
Achras 189
Achyranthes 243; aspera 243
Aconite 87
Aconitum 189, 311; wilsonii 4
Acorus 189; calamus 243, 307
Actaea rubra 311; spicata 93
Actinostema paniculata 4
Adansonia 189
Adhatoda 439; vasica 243, 256
Adiantum concinnum 243; lunulatum 243
Adina cordifolia 243
Aechmea 189
Aegiale hesperiaris 293
Aegle marmelos 243
Aerva lanata 244
Aesculus 189
Aframomum 189, 211; Granum Paradisi 211; melegueta 208–215, f210; meleguetella 211
Agaricus 189
Agastache foeniculum 318
Agathis 189
Agave 189, 292, 439; americana 244
Agropyron repens 380
Agrostis 190
Aiphanes 348
Alangium 439; lamarckii 244; salvifolium 244
Alaria 190
Albizia myriophylla 244; procera 135
Alectoria fremontii 304
Aleurites 190; fordii 11, 17; moluccana 280; montana 11, 17
Algae 34
Alkanna 190
Allium 190, 308, 330, 346, 354; bakeri 11, 16; cernuum 308; fistulosum 9, 16; ramosum 9, 16; sativum f pekinense 9, 16
Alnus 190; firmifolia 289; tenuifolia 310
Alocasia macrorrhiza 13, 16, 280
Aloë 190
Alpinia 190; cardamomum 244, 252
Alsophila rufa 354
Alstonia constricta 45; scholaris 244
Alternanthera philoxeroides 95–101; sessilis 244
Alternaria 336
Althaea officinalis 156
Amanita 190
Amaranthus 190; frumentaceus 244; gangeticus 244; var angustifolia 244; mangostanus 13, 16; paniculatus 244; tricolor 244
Ambrosia elatior 289
Amelanchier alnifolia 313
Amomum 190, 211, 214; Cardamomum 213; Granum Paradisi 211; melegueta 211, 214; violaceum 211
Amorphophalus 245; campanulatus 244, 245
Ampelocissus latifolia 244, 266; tomentosa 244, 266
Amyris 190
Anabasis tamariscifolia 391
Anacardium 190, 349; excelsum 354; occidentale 354
Anagallis arvensis 135, 153, 283–285
Anamirta cocculus 135
Ananas 190, 346, 349; comosus 350, 354
Anaphalis margaritacea 320
Andrographis paniculata 244
Andropogon muricatus 244, 266
Anemone multifida 312; patens var wolfgangiana 312
Anethum 190, 439; graveolens 86
Angelica 190; glauca 244; kiusiana 9, 16
Angiopteris evecta 280
Aniba 190
Annona 190, 346; cherimola 289; glabra 354; muricata 217, 354; purpura 354; squamosa 245
Anogeissus 190; latifolia 245, 439
Antennaria rosea 320
Anthemis 190; nobilis 395, 440
Anthocephalus cadamba 240, 245; indicus 245
Anthriscus 190
Anthurium 349; acutangulum 354
Antiaris 190
Antidesma diandrum 245
Apium 153, 154, 190, 439
Apocynum 190; cannabinum 318
Appunia seibertii 354
Arachis 190; hypogaea 114, 119
Aralia nudicaulis 316
Araucaria 190
Arbus precatorius 243
Arctium lappa 83
Arctostaphylos uva-ursi 317
Areca 190; catechu 13, 17, 245
Arenga 190
Argemone 190
Argyreia speciosa 245
Aristolochia 351, 354; indica 245
Armoracia 190
Arnica amplexicaulis 320
Arrabidea 351
Arracacia 190
Artemisia 77, 190, 320; absinthium 388; cana 320; frigida 320; vulgaris 388
Artocarpus 190, 346; altilis 15, 16, 280, 281, 350, 352, 353, 355; evecta 281; integra 15, 16; integrifolia 245; lakoocha 245; macrorrhiza 281; moluccana 282
Arum campanulatum 244, 245
Arundinaria 190
Asclepias 190; rosea 245, 260
Asimina 190
Asparagus 191; racemosus 245
Aster falcatus 320
Asteracantha longifolia 245, 255
Astragalus 191; canadensis 314; crassicarpus 314
Astrocaryum 191, 348, 355; chambira 180
Atriplex 153
Atropa 191, 422; belladonna 86, 87, 90

Attalea 191; allenii 355
Atylosia mollis 245; scarabaeoides 245
Avena 191, 346, 439
Averrhoa 191; bilimbi 15, 16; carambola 15, 16
Azadirachta 439; indica 245, 257, 439

Baccharis glutinosa 290
Bacillus 191; cereus 138; macerans 138; polymyxa 138, 139; subtilis 138
Bactris 348, 355
Balanocarpus 191
Balsamorhiza sagittata 320
Bambusa 191; arundinacea 355; tulda 245
Banisteriopsis 66, 67, 187, 191, 296–300; caapi 32–33, 78, 296, 355; inebrians 296; quitensis 296; rusbyana 296
Baphia 191
Barosma 191
Barringtonia acutangula 246; racemosa 135; speciosa 135
Basella alba 246
Bassia latifolia 135, 246, 257
Bauhinia purpurea 246; retusa 246; vahlii 246
Bellucia axinanthera 355
Benincasa cerifera 9, 13, 16
Berberis repens 312
Bertholletia 191
Beta 191; vulgaris 14, 439
Betula 191, 311
Bidens 289
Biophytum sensitivum 246
Bison americanus 301
Bixa 191, 346, 351; orellana 355, 459
Blumea wightiana 246
Boehmeria 191; nivea 11, 17; virgata 280, 281
Boerhavia diffusa 246; procumbens 246; repens 246
Bombacopsis quinata 355
Bombax ceiba 246; malabaricum 246
Bonnaya veronicaefolia 246
Borago officinalis 382
Borassus 191; flabellifer 246; flabelliformis 246
Borojoa patinoi 355
Borreria articularis 247, 264
Boswellia 191; serrata 247; thurifera 247
Boutelous gracilis 306
Brachiaria mutica 439
Brasenia schreberi 10, 16
Brassica 9, 153, 191, 439; alboglabra 11, 16; campestris 247; chinensis 8, 9, 16; var oleifera 10, 16; japonica 10, 16; nigra 153, 154, 289; pekinensis 9, 16
Bridelia stipularis 247
Bromeliaceae 34
Bromus 191
Brosimum utile 355
Broussonetia 191
Brya 191
Bryonia laciniosa 247
Bryonopsis laciniosa 247
Buchanania lanzan 247; latifolia 247
Buchloë dactyloides 306
Buettneria herbacea 247
Bursera 191; serrata 247
Butea 191; frondosa 247; monosperma 247; superba 247
Butyrospermum 191
Buxus 191
Byrsonima 346; crassifolia 350, 355

Caesalpinia 191; nuga 135
Caesulia axillaris 247
Cajanus 191, 346, 349; cajan 247, 355; indicus 247
Calamus 191; rotang 247
Calathea 192; allouia 355
Callicarpa macrophylla 247
Calocarpum 192
Calochortus apiculatus 308
Calotropis 192; gigantea 247; procera 248
Calycophyllum 192
Camassia quamash 301, 308
Camelina 192
Camellia 192; oleifera 11, 17; sinensis 11, 17
Campanulatae 36
Cananga 192
Canarium 192; ovatum 18; pimela 11, 16
Canavalia 192; ensiformis 248
Canna 192, 355; edulis 439
Cannabis 192; sativa 9, 17, 248
Capparis 192; horrida 248; zeylanica 248
Capsicum 192, 346, 349, 355; frutescens 248
Caragana arborescens 115
Carapa 192, 349; guianensis 356
Carex 153, 154, 307; nebraskensis 307
Careya arborea 248
Carica 192, 346; papaya 350, 356
Cariniana pyriformis 356
Carissa 192; carandas 248
Carludovica 192, 349; palmata 356
Carpinus 192
Carthamus 192, 439
Carum 192; ajowan 248; carvi 248; copticum 248
Carya 192
Caryocar 349; amygdaliferum 356
Caryota 192
Casearia tomentosa 248
Casimiroa 192; edulis 289
Cassia 192; acutifolia 385; angustifolia 385; auriculata 439; fistula 248, 385; occidentalis 356; reticulata 356; tora 248
Cassytha filiformis 248
Castanea 192
Castilla 192, 351, 356
Catalpa 192
Catha 192
Catharanthus 42–46; lanceus 42, 45; longifolius 42; pusillus 42, 45; roseus 42, 45; scitulus 42; trichophyllus 42, 43, 44, 45
Cavanillesia platanifolia 356
Cecropia 184, 356, 430
Cedrela 192
Cedrus 39, 192
Ceiba 192, 349
Celastrus paniculatus 248
Celtis 193
Centaurium erythraea 381
Centella asiatica 280, 281; macroptera 281; seemannii 282; trichophylla 282

XUM

Centipeda minima 248, 249; orbicularis 248, 249
Centratherum anthelminticum 249, 265
Cephaelis 193; ipecacuanha 356, 386
Cephalandra indica 249
Ceratonia 193; siliqua 460–470
Ceratotheca 23; sesamoides 21, 28
Ceroxylon 193, 356
Chamaecyparis 193
Champaerops 193
Chenopodium 153, 193; album 153, 154, 289, 311; anthelminticum 391; graveolens 289; pallidicaule 55, 61; quinoa 55, 429
Chimaphila umbellata 317
Chlorogalum 193
Chlorophora 193; tinctoria 356
Chloroxylon 193
Chondodendron 193
Chondrus 193
Chorisia 193
Chrysanthemum 193; coronarium 11, 16
Chrysobalanus 193; icaco 357
Chrysophyllum 193; cainito 357
Chrysothamnus 193; nauseosus 321
Cicer 193; arietinum 249
Cichorium 193
Cicuta 316; maculata 393; virosa 90, 92, 393
Cinchona 193; ledgeriana calisaya 382; succirubra 382
Cinnamomum 193; cassia 13, 17; tamala 249, 256; zeylanicum 249, 256
Cirsium hookerianum 321
Cissampelos pereira 249, 357
Cissus adnata 249, 266; quadrangularis 249
Citellus 319
Citrullus 193; lanatus 357; vulgaris 388
Citrus 193, 346, 349, 357; acida 249; aurantifolia 15, 16; aurantium 11, 16, 249; grandis 13, 16; limon 13, 16; macroptera 280; medica 249; reticulata 11, 16; sinensis 11, 16
Cladophora 303
Clausena lansium 11, 16
Claviceps 193
Clavija mezii 357
Claytonia lanceolata 311
Clematis ligusticifolia 312; verticellaris 312
Cleome icosandra 249; serrulata 312; viscosa 249
Clerodendrum infortunatum 249; phlomoidis 249; serratum 249; siphonanthus 249
Clibadium 357
Clidemia septuplinervia 357
Cnidoscolus 193
Coccinia cordifolia 249
Coccoloba 193
Cocculus 193
Cochlearia officinalis 387
Cochlospermum 193; gossypium 249; religiosum 249
Cocos 193, 346, 349; nucifera 15, 16, 350, 352, 353, 357
Coffea 193, 346; arabica 357
Coix 194; lachryma-jobi 12, 16, 249, 357
Cola 194
Colchicum 194
Colocasia 194, 346, 357; antiquorum 13, 16, 249; esculenta 249, 350, 352, 353
Combretum decandrum 249; nanum 249
Commelina bengalensis 250; suffruticosa 250
Commiphora 194
Conium maculatum 90, 92
Connarus panamensis 357
Contortae 36
Convallaria 194
Copaifera 194
Copernicia 194
Corallina officinalis 391
Corchorus 194; capsularis 13, 17, 137; olitorius 137
Cordia dichotoma 250; macleodii 250; myxa 250
Coriandrum 194; sativum 9, 250
Cornus 194; stolonifera 317
Corozo 346; oleifera 357
Cortinellus 194
Corylus 194; avellana 153
Costus speciosa 250; villosissimus 357
Cotinus 194
Cotoneaster 47–50; adpressa 47, 48; apiculata 47, 48; divaricata 47, 48, 49; horizontalis 47, 48; lucida 47, 48; racemiflora soongarica 47, 48; rosea 47, 48, 49; zabeli 47, 48, 49
Cotyledon laciniata 250, 256
Couma 194; macrocarpa 357
Couratari 194
Crataegus douglasii 313; mexicana 289; pinnatifida 9, 16
Crataeva nurvala 250; religiosa 250
Crescentia cujete 357
Crinum latifolium 250; zeylanicum 250
Crocus 194
Crossostylis seemannii 280
Crotalaria 194; calycina 250
Croton 36, 194; oblongifolius 250
Cryosophila warscewiczii 358
Cryptolepis buchanani 250
Cryptostegia 194
Cubera officinalis 250
Cucumis 194; melo 9, 358, 388; sativus 9, 250, 358, 388, 403
Cucurbita 194, 346, 358; lagenaria 250, 256; maxima 115, 325–332; moschata 250; pepo 388
Cuminum 194
Curcuma 194; angustifolia 250; domestica 15, 17, 250, 251; longa 250, 251; zedoaria 439
Cuscuta chinensis 251
Cyamopsis 439
Cybistax 194
Cycadaceae 34
Cycas 194
Cyclamen persicum 135
Cycnoches tonduzii 358
Cydonia 194
Cymbopogon 194, 346; nardus 358
Cynara 194
Cynglossum officinale 391
Cynodon dactylon 251, 439
Cynorchis 84
Cyperaceae 34
Cyperus 194; tegetum 251
Cyphomandra 194; costaricensis 358
Cyrtandra trichophylla 280

Dacrydium 195
Dactylis 195
Daemonorops 195
Dahlia 195
Dalbergia 195; latifolia 251
Daniella 195
Daphne 195
Datura 195, 351, 358, 422; alba 251; fastuosa 251; metel 251; stramonium 289; suaveolens 296
Daucus 195; Carota 84
Delphinium 311
Dendrobii minima 172; recens 172; rotundicaulis 171
Dendrobium 165–174; aduncum 166, f167, 168, 170; aggregatum 167, 168, 171, f172, 173; bellatulum 166, 168, f170, 171; chrysanthum 167, 168, 170, f171, 173; crispulum 165, 166, 168, f169, 170; hancockii 166, 168, f170; hercoglossum 166, f167, 168, 170; kwangtungensis 166, f168, 170; linawianum f165, 166, 167, 169, 174; loddigesii 166, 168, 170; lohoense 166, 168; moniliforme 167; nobile 165, 166, 167, 169, 171, 174; officinale 165, f166, 168, 170; plicatile 167, 168, f171, f173; wangii 166, 168, 170
Dendrocalamus 195
Derris 134, 195; elliptica 135; ferruginea 135; grandifolia 135; malaccensis 135; polyantha 135; scandens 135; trifoliata 135
Desmodium cephalotes 251; gangeticum 251; triflorum 251
Desmoncus 349
Dianthus 195
Dicranopteris linearis 280; setigera 281
Digitalis 195
Dillenia indica 251; pentagyna 251; scabrella 251
Dioscorea 195, 346; alata 13, 16, 350, 352, 353, 358; batatas 10, 16; crispata 251; daemona 251; esculenta 13, 16; hispida 251; oppositifolia 251; pentaphylla 251; trifida 358
Dioscoreaceae 34
Dioscorides 86
Diospyros 195; embryopteris 251, 252; inconstans 358; kaki 9, 16; montana 252; peregrina 251, 252; tomentosa 252
Dipteracanthus suffruticosa 252, 262
Dipterocarpus 195
Dipteryx 195
Disporum trachycarpus 309
Dolichos 195; biflorus 252; lablab 252
Dorema 195; ammoniacum 387
Doronicum 86
Dracaena 195
Draconteum 358
Dregea volubilis 252, 266
Drymonia spectabilis 358
Dryobalanops 195
Dryopteris 195; setigera 280, 281
Duboisia 195
Durio 195; zibethinus 15, 17
Dyera 195
Ecclinusa 195
Echinochloa 195; crusgalli 252, 260; frumentacea 12, 16
Edgeworthia 195
Ehretia laevis 252
Eichhornia crassipes 95–101; f98; 291
Elaeagnus commutata 316
Elaeis 195
Elaeodendron glaucum 252; roxburghii 252
Elatostema umbellatum var convolucratum 5
Eleocharis 291; tuberosa 10, 13, 16
Elettaria 196; cardamomum 244, 252
Eleusine 196; coracana 28, 252
Elymus cinereus 306
Embelia robusta 252; tsjeriam-cottam 252
Emblica 439; officinalis 252, 261
Emilia sonchifolia 252
Enhydra fluctuans 252, 257
Entada phaseoloides 252; scandens 252
Ephedra 196
Episcia lilacina 358
Equisetaceae 34
Equisetum arvense 304; hyemale 304
Eranthis hyemalis 90
Eremostachys vicaryi 135
Erica 196
Erigeron canadensis 321; philadelphicus 321
Eriobotrya 196; japonica 11, 16
Eriosema chinensis 252
Ervum lens 253, 257
Eryngium 83, 346; foetidum 358
Erythrina corallodendron 358; indica 253; variegata var orientalis 253
Erythronium grandiflorum 309
Erythroxylon 196
Erythroxylum bolivianum 422; coca 422–438, f424; novogranatense 422; truxillense 422
Escobedia 459
Eucalyptus 196
Eucheuma 196
Euchlaena 196
Eugenia 196; caryophyllus 15, 17; jambolana 253, 264; javanica 15, 17; operculata 253, 264; principium 358
Eupatorium odoratum 135
Euphorbia 83, 196; antiquorum 253; granulata 253; hirta 253; longana 11, 16; pilulifera 253; thymifolia 253
Eurotia lanata 311
Euryale ferox 10
Evernia 196; vulpina 304
Evodia hortensis 280, 281
Exogonium 196; dumosum 400; purga 391, 399, 401

Fagopyrum 196
Fagraea berteriana 280
Fagus 196
Farinosae 34
Feijoa 196
Feronia 196; elephantum 253; limonia 253
Ferula 196; asafoetida 253; tingitana 387
Ficus 154, 196; bengalensis 253; berteriana 282; carica 153; glomerata 253; infectoria 253;

XUM

insipida 358; lucescens 253; racemosa 253; religiosa 253; vitiensis 280, 282
Fimbristylis monostachya 253; schoenoides 254, 262
Firmina colorata 254, 264
Flacourtia 196; indica 254; ramontchi 254
Flemingia congesta 254, 258
Foeniculum 196
Fortunella 196; japonica 11, 16
Fragaria 196; virginiana 313
Fraxinus 93, 196, 318; ornus 385
Fritillaria pudica 309
Fumaria officinalis 383
Funtumia 196
Furcraea 196
Fusarium 334, 340

Galeopsis angustifolia 153
Galium boreale 319; triflorum 319; verum 84
Garcinia 196; mangostana 15, 16
Gardenia latifolia 254; turgida 254
Gaultheria 196
Gaylussacia 196
Geanthus cevuga 280, 281; repens 282
Gelidium 196
Genipa 351; americana 358
Gentiana 196; affinis 318; chirayita 254, 264
Geonoma 348; congesta 358
Geophila repens 280
Geraniales 36
Geum triflorum 313
Gigantochloa 197
Gleditsia 197
Gliricidia sepium 358
Glochidion lanceolarium 254, 261
Gloriosa superba 254
Glossogyne pinnatifida 254
Glumiflorae 34
Glycine 197, 410–421; subgenus Bracteata 411, 412; subgenus Glycine 411; subgenus Leptocyamus 411; subgenus Soja 411, 412; canescens 411; clandestina 411; var Sericea 411; falcata 411; gracilis 413, 417; Glycine gracilis × Glycine ussuriensis 413; javanica 410, 412; latrobeana 411; max 8, 16, 411–413, 417; Glycine max × Glycine gracilis 413; soja 114; tabacina 411; tomentella 411; ussuriensis 411–414, 417; wightii 412; subsp petitiana var mearnsii 411; var petitiana 411; subsp pseudojavanica 411; subsp wightii var longicauda 411; var wightii 411
Glycyrrhiza 197; lepidota 314
Gmelina arborea 254
Gnetaceae 34
Gnetum leyboldii 358; scandens 135
Gonzalagunia panamensis 358; rudis 359
Gossypiospermum 197
Gossypium 84, 197, 359, 439; arboreum 13, 17, 254; herbaceum 13, 17, 254
Gracilaria 197
Gramineae 34
Grevillea 197
Grewia polygama 254; sapida 254; villosa 254
Grias cauliflora 359
Grindelia squarrosa 321
Grislea tomentosa 255
Guadua 197
Guaiacum 197
Guarea multiflora 359
Guazuma ulmifolia 359
Guilielma 346, 348; gasipaes 359
Guizotia 197, 439
Gustavia 346, 349; superba 359
Gutierrezia sarothrae 321
Gymnena hirsutum 255
Gymnocladus 197
Gymnosporangium juniperi-virginianae 39
Gynandropsis gynandra 255; pentaphylla 255
Gynerium 349; sagittatum 359
Gynocardia odorata 135

Haematoxylon 197
Hamamelis 197
Hamelia patens 359
Hancornia 197
Hedeoma 197
Helenium autumnale 321
Helianthus 197, 439; annuus 84, 255; maximilianii 321
Heliconia 348, 349, 359
Helicteres isora 255
Heliocarpus popayanensis 359
Heliotropium 197; indicum 255
Helleborus niger 92
Helminthosporium turcicum 283, 284, 285
Hemerocallis fulva 11, 16
Heracleum lanatum 316
Heteropogon contortus 255
Heuchera cylindrica 312; flabellifolia 312; richardsonii 313
Hevea 197
Hibiscus 155–164, f160, f161, 197, 238, 439; cancellatus 255; cannabinus 255; coccineus 155, 156, f158, 160–163; elatus f234, 238, f239, 240; grandiflorus 155, 156, 158, 161; grandiflorus roseus 162; grandiflorus ruber 162; incanus 161; lasiocarpus 155, 156, f159, 161; var occidentalis 158; militaris 155, 156, f158, 160–162; moscheutos 155, 156, 158, f160, 161, 162; subsp moscheutos 155, f157; subsp palustris 155, f156, f157, 158; mutabilis 162; oculiroseus 156; palustris 158, 162; palustris hybridus 162; palustris roseus 158; rosa-sinensis 155, 255; roseus 158; tiliaceus 235, f236, f237, 239, 240
Hieracium 153
Hierochloë 197; odorata 301, 306
Hippocratea arborea 255
Hippomane mancinella 359
Hirtella triandra 359
Holarrhena antidysenterica 255
Hopea 197
Hordeum 197, 439; vulgare 8, 255; var Himalaya 369–373
Humulus 197
Hyacinthus 197
Hydnocarpus 197; wightiana 135
Hydrastis 197
Hydrocotyle ranunculoides 291
Hygrophila spinosa 245, 255

Hymenaea 197
Hymenodictyon excelsum 255
Hyoscyamus 87, 197, 422
Hypocreaceae 34
Hypopta agavis 293
Hyptis 351, 359
Hyssopus 198

Ichnocarpus frutescens 255
Ilex 198; vomitoria 403–407
Illicium 198
Impatiens capensis 315
Imperata arundinacea 256; cylindrica 256
Indigofera 198; pulchella 256
Inga 198, 348; edulis 359; saffordiana 359
Ipomoea 198, 346; aquatica 10, 16; batatas 13, 83, 256, 359; carthartica 236; dumosa 400; hederacea 401; hintonii 400; leptophylla 301; nil 401; orizabensis 401; purga 399–401; quamoclit 256, 262; schiedeana 399; seducta 400, 401; signata 400, 401; simulans 399; suffulta 401; tiliaceus 236
Iriartea 349, 359
Iridaceae 34
Iris 83, 198
Isatis 198
Ischnosiphon 430
Isertia pittieri 360
Ixora parviflora 256

Jasminum 198; 439; arborescens 256
Jatropha curcas 256, 360
Jessenia 346; polycarpa 360
Juglans 198; regia 153
Juncus 198; balticus 308
Juniperus 39, 198; communis 305; horizontalis 305; scopulorum 305; virginiana 39–41
Jussiaea suffruticosa 256
Justicia 439; adhatoda 243, 256; americana 96, 97, 99, 100, 101

Kalanchoe laciniata 250, 256
Khaya 198
Krameria ixina 217, 219; triandra 219
Kyllinga monocephala 256

Lactuca 198; denticulata 9, 16
Laetia micrantha 360
Lafoensia 349
Lafornsia punicifolia 360
Lagenaria vulgaris 250, 256, 388
Lagerstroemia parviflora 256
Lagetta 198
Laminaria 198
Lamium 83
Landolphia 198
Lannea coromandelica 256, 260
Lansium domesticum 15, 17
Lapathum acutum 380
Lapsana communis 153, 154
Larix 198
Lasia aculeata 256; heterophylla 256
Lathyrus sativus 256
Laurus 198; cassia 249, 256; cinnamomum 249, 256
Lavandula 198
Lawsonia 198; alba 256; inermis 256, 439
Lecythis 198; ollaria 360
Ledum groenlandicum 318
Leea aequata 256; hirta 256; macrophylla 257
Lens 198, 346; culinaris 253, 257
Leonotis nepetaefolia 257
Leopoldinia 198
Lepidagathis cristata 257
Lepidium sativum 257
Lespedeza 198
Leucas cephalotes 257; clarkei 257
Levisticum 198
Lewisia pygmaea 311
Liatris punctata 321
Libocedrus 198; decurrens 40
Licania 198; hypoleuca 360
Lichen 257
Liliaceae 34
Liliflorae 34
Lilium 330; philadelphicum 309; tigrinum 11, 16
Limnophila conferta 252, 257; roxburghii 257
Lindackeria laurina 360
Linostoma decandrum 135
Linum 27, 198; usitatissimum 257
Liquidambar 198
Liriodendron 198
Litchi 198; chinensis 11, 16
Lithocarpus 198
Lithospermum incisum 318; linearifolium 314; ruderale 318
Litsaea polyantha 257, 265
Lobelia 198
Lolium 92
Lomatium dissectum 317; simplex var leptophyllum 317; triternatum 317
Lonchocarpus 134, 199
Lophophora 199; williamsii 77, 78, 315
Loranthus 92; buddleioides 257; scurrula 257
Lucuma 199
Luffa 199; acutangula 13, 16, 257; amara 257; cylindrica 360
Lycoperdon 303
Lycopersicon 199, 346; esculentum 360
Lycopodiaceae 34
Lycopodium 199; complanatum 304
Lycopus 318
Lygeum 199
Lygodesmia juncea 321
Lygodium flexuosum 257; pinnatifidum 257

Macadamia 199
Maclura 199
Macrocystis 199
Madhuca 199; indica 246, 257
Madia glomerata 321
Maesa indica 135
Magnolia 199
Malachra alceifolia 360
Mallotus philippensis 257
Malpighia 199

XUM

Malus prunifolia 9, 16
Malva sylvestris 9; verticillata 16
Mamillaria vivipara 316
Mammea 199, 346; americana 360
Mandragora officinarum 85, 86
Manettia reclinata 360
Mangifera 199, 346; indica 257, 360
Manicaria 348; saccifera 360
Manihot 63, 199, 346, 349; esculenta 350, 352, 353, 360
Manilkara 199; zapotilla 360
Maranta 199; arundinacea 439
Marasmius oreades 303
Marattia smithii 280
Marjorana 199
Marrubium 153, 199
Marsilia quadrifolia 257
Martynia annua 257; diandra 257
Matricaria 199, 439; chamomilla 440; matricarioides 321
Meconium 84
Medicago 199; sativum 9
Melanorrhoea 199
Melastoma denticulatum 280, 282; smithii 282
Melia azadirachta 245, 257
Melilotus 199
Melissa 199
Melloa populifolia 360
Melothria heterophylla 258, 267
Mendonica 360
Mentha 199, 351, 360; arvensis var villosa 318; sativa 258
Mercurialis perennis 394; tomentosa 394
Mespilus 199
Metroxylon 199
Mezoneurum cucullatum 258
Michelia 199; champaca 258
Micrandra 199
Microspermae 34
Miliusa velutina 258
Milletia auriculata 258; pachycarpa 135
Mimosa rubicaulis 258
Mimusops elengi 258
Mitragyna parvifolia 258
Mnesithea laevis 258, 262
Moghania macrophylla 254, 258
Momordica dioica 258; charantia 361; muricata 258
Monardo fistulosa var menthaefolia 319
Monochoria plantaginea 258
Monstera 199
Mora 200
Morchella 200
Morinda exserta 258; tinctoria 258
Moringa 200; oleifera 258, 439; pterygosperma 258
Mormodica charantia 13, 16
Morus 200; alba 10, 17
Mucuna bracteata 361; pruriens 258, 259; prurita 258, 259
Mudulea 134
Muhlenbergia 200; richardsonis 307
Mundulea suberosa 135
Muntingia calabura 361
Musa 200, 346, 349; Musa × paradisiaca 14, 17; paradisiaca 259, 350, 352, 353, 361; sapientum 350, 352, 353, 361; textilis 18
Musaceae 34
Myrciaria 200
Myrica 200; nagi 135; rubra 11, 16
Myristica 200; fragrans 15, 17
Myroxylon 200, 348, 351; pereirae 361
Myrtiflorae 36

Napellus 88
Narcissus 200
Nardostachys jatamansi 259
Nasturtium 200; indicum 9, 16; officinale 291; sarmentosum 280, 281
Nelumbo nucifera 10, 259
Neoglaziovia 200
Nephelium lappaceum 15, 16
Nepta 200
Nereocystis 200
Nerium indicum 259; odorum 259
Neurolaena 351; lobata 361
Nicotiana 86, 123, 200; attenuata 319; tabacum 296, 361
Nigella indica 259
Nuphar variegatum 311
Nyctanthes arbortristis 259
Nymphaea 259, 291; lotus 259; rubra 259
Nyssa 200

Ochna squarrosa 259
Ochroma 200; lagopus 361
Ocimum 200, 351, 361, 439; americanum 259; basilicum 259; canum 259; micranthum 361; sanctum 260
Ocotea 200
Odina wodier 260
Oenanthe stolonifera 10, 16
Oenocarpus 348, 361
Oenothera caespitosa 316
Olax nana 260
Oldenlandia biflora 260; corymbosa 260; paniculata 260
Olea 200; europaea 448
Oleiocarpon 348; panamense 361
Oniscus asellus 392
Opium 84, 85
Oplopanax horridum 316
Opopanax 200
Opuntia 392, 361; dillenii 260; polyacantha 316
Opuntiales 36
Orbignya 200
Orchidaceae 34
Orchis Morio 84
Origanum 200
Orobanche ludoviciana 319
Oroxylum indicum 260
Orthocarpus luteus 319
Oryza 200, 346, 349; sativa 8, 12, 16, 350, 352, 353, 361
Oryzopsis hymenoides 307
Osmorhiza chilensis 317
Osmunda regalis 93
Ostrya 200
Ougeinia dalbergioides 135, 260; oojeinensis 260

Oxalis 200; acetosella 382; tuberosus 56
Oxandra 200
Oxystelma esculentum 245, 260
Oxytropis 314

Pachira 351
Pachyrrhizus 200
Palaquium 200
Palmae 34
Panax 201; ginseng 5
Pandanus 201, 280, 281; odoratissimus 260; tectorius 260
Panicum 201, 415; crus-galli 252, 260; flavidum 260; miliaceum 8, 16
Papaver 84, 201
Paraglycine 410f
Parinari insularum 280
Parkia 201
Parthenium 201
Paspalidum flavidum 260; repens 260
Paspalum scrobiculatum 260
Passiflora 201, 333–343; alata 337–339; allardii 339; antioquiensis 336, 337, 338, 339; bogotensis 338; caerulea 339; caponii 339; coccinea 337, 338, 339; cumbalensis 338; decaisneana 339; edulis 333, 334, 339, 340, 341; f flavicarpa 333, 334, 340, 341; exoniensis 339; filamentosa 338; foetida 337, 338; incarnata 338; laurifolia 336, 338, 339; lawsoniana 339; ligularis 333, f334, 336, 340; macrocarpa 337; maliformis 336, 339; mandoni 338; manicata 338, 339; membranacea 338; militaris 339; mixta 336, 338; mollissima 333, 334, f336, 338, 339, 340; nigradenia 338; nitida 338; pinnatistipula 338, 339; platyloba 338, 339; popenovii 338, 339; psilantha 338; pulchella 339; quadrangularis 333, f334, 336, 339–341; racemosa 339; raddiana 339; riparia 338, 339; rosea 339; seemanii 338, 339; serratifolia 338; serratodigitata 338, 339; suberosa 339; subpeltata 338; tolimana 338; tripartita 338; vespertilio 338; vitifolia f334, 338, 339, 361
Pastinaca 201
Patinoa almirajo 361
Paullinia 201
Pavetta indica 260
Pavonia fruticosa 361
Pectis 351, 362; elongata 362
Pedalium 23
Pelargonium 201
Peltogyne 201; purpurea 362
Penicillium 201
Pennisetum 201; purpureum 439
Penstemon acuminatus 319
Pentagonia brachyotis 362
Pentapetes phoenicea 260
Peperomia galiodes 362
Pereskia bleo 362
Perideridia gairdneri 317
Perilla 201
Persea 201, 346; gratissima 350, 352, 353, 362
Petalostemon candidum 314; purpureum 314
Petiveria 351; alliacea 362
Petroselinum 201; sativum 383
Peucedanum japonicum 5
Phaseolus 201, 346; angularis 11, 16, 114; aureus 114, 118; lunatus 115; mungo 260; vulgaris 119, 120, 350, 352, 353, 362; var Prince 115
Phenax rugosus 362
Philodendron guttiferum 362; tripartitium 362
Phleum 201
Phoenix 201; acaulis 261; dactylifera 83; sylvestris 261
Phormium 201
Phragmites communis 220, 307
Phyllanthus 201; acuminatus 362; emblica 252, 261; lanceolarius 254, 261
Phyllocladus 201
Phyllostachys 201
Phymatodes nigrescens 280
Physalis minima 261
Physaria didymocarpa 312
Phytelephas 201; seemannii 362
Picea 201, 305
Picrasma 201
Pimenta 201
Pimpinella 202; anisum 261
Pinaceae 34
Pinus 69, 142–150, 202, 305; albicaulis 305; clausa 146, f149; contorta var latifolia 305; echinata f144, 145; elliottii 145, f146; glabra 146, f148; palustris f145; pinea 115; ponderosa 305; pungens 146, f149; rigida 146, f148; serotina 146, f147; strobus 69; sylvestris 70; taeda f144, 145; virginiana 146, f147
Piper 202, 351; betle 13, 17, 261; darienense 362; elongatum 362; longum 261; nigrum 13, 15, 17; pinoganense 362; puberulum var glabrum 280; tricuspe 362, 363
Piptadenia peregrina 77
Piratinera 202
Pistacia 202; vera 83
Pisum 202, 346; arvense 261; sativum 113, 261
Pithecellobium bigeminum 135; longifolium 362
Plantago 202, 290, 439; ispaghula 261; ovata 261
Platanus 202
Plumbago zeylanica 261
Plumeria actifolia 261; rubra f acutifolia 261
Podocarpus 202
Podophyllum 202
Pogostemon 202
Polianthes 202; tuberosa 439
Pollinia eriopoda 261
Polycarpea corymbosa 261
Polygala 202; alba 315; chinensis 261; crotalarioides 261; senega 315
Polygonum 154, 222, 223; aviculare 153, 223; barbatum 222; bistorta 222, 223; bistortoides 311; convolvulus 153; hydropiper 9, 16, 222, 223; minus 223; plebejum 261; viviparum 223
Polypodium dryopteris 93
Polyporus 303; tuberaster 303
Pometia insularum 281; nigrescens 282; pinnata 280, 281; puberulum 281
Poncirus 202
Pongamia 202, 439; glabra 135, 261; pinnata 261

XUM

Populus 202, 310; alba 289; sargentii 310; tremuloides 310
Porana paniculata 261
Porphyra 202
Portulaca 439; oleracea 289
Posoqueria latifolia 362
Potentilla anserina 313; fruiticosa 313
Pothomorphe peltata 362
Poulsenia 351; armata 362
Pourouma 430; aspera 363; cecropiaefolia 184
Pouzolzia pentandra 261, 265
Premna herbacea 261
Principes 34
Prioria copaifera 363
Priva lappulacea 363
Prosopis 202; juliflora var glandulosa 405
Protium 202, 351; heptaphyllum 363
Prunus 51, 153, 202; amygdalus 153; armeniaca 9, 16; capuli 289; domestica 153; mume 9; persica 9, 16; pseudocerasus 9, 16; salicina 9, 16; virginiana 313
Pseudoglycine 410f
Pseudotsuga 202; menziesii 305
Psidium 202; guajava 261, 363
Psoralea agrophylla 314; esculenta 301, 314
Psychotria 66, 67; brachiata 363; psychotriaefolia 66; viridis 66
Pterocarpus 202; marsupium 261
Pterospermum acerifolium 262
Pueraria 202, 410; lobata 11, 17; tuberosa 262
Punica 202; granatum 439
Pyrus 202; pyrifolia 9, 16

Quamoclit pennata 256, 262
Quararibea castano 363; cordata 363
Quassia 202, 351; amara 363
Quercus 202
Quillaja 202

Ramalina 202
Rana 291
Ranales 36
Randia armata 363; dumetorum 135, 262; uliginosa 262
Ranunculus 81, 90, 153, 154, 285; acris 153; repens 153
Raphanus 202; raphanistrum 289; sativus 9, 262, 382
Raphia 203
Ratibida columnifera 321
Rauvolfia ligustrina 45; sellowii 45; 203
Renealmia 351; occidentalis 363
Reseda 203
Rhamnales 36
Rhamnus 203; cathartica 385; purshiana 385
Rheedia edulis 363
Rheum 203
Rhizophora 203
Rhododendron falconeri 135
Rhodymenia 203
Rhoeadales 36
Rhus 203; radicans var rydbergii 315; trilobata 315; verniciflua 10, 17
Ribes 203, 313; americanum 313
Ricinus 203; communis 262
Rivea 203
Robinia 203
Roccella 203
Rosa 203, 314, 439; bourboniana 175; damascena 175–179
Rosales 36
Rosmarinus 203
Rottboellia perforata 258, 262
Rubia 203
Rubiales 36
Rubus 154, 203; fruticosus 153; idaeus 153; strigosus 314
Ruellia suffruticosa 262
Rumex 153, 154, 203; crispus 289, 311, 380; mexicanus 311; obtusifolius 153; venosus 311
Ruta 203

Sabal 203, 348; allenii 363
Sabbatia elliotti 381
Saccharum 203, 346, 349; bengalensa 262; officinarum 14, 17, 350, 352, 353, 364; sara 262; spontaneum 262
Sagittaria cuneata 306; latifolia 291, 306; sagittifolia 119; sinensis 10, 16
Salix 203, 310; bonplandiana 289; tetrasperma 262
Salmalia 203
Salsola 439
Salvadora 439
Salvia 203
Samanea 203
Sambucus nigra 153, 154, 380
Samuela 203
Sansevieria 203
Santalum 203; album 262
Sapindales 36
Sapindus 203; mukorossi 135; trifoliatus 135
Sapium 203; sebiferum 11, 17
Saponaria 203
Sassafras 204
Satureja 204
Saurauia malaccense 281; rubicunda 280, 282
Schinopsis 204
Schleichera 204; oleosa 262; trijuga 262
Scindapus officinalis 262
Scirpus 291; acutus 307; lacustris 86; monostachyus 254, 262; paludosus 307; rotundus 262
Scitaminae 34
Sebania aegyptiaca 263
Secale 204
Sechium 204, 346
Semecarpus anacardium 262
Senecio salignus 290; vulgaris 394
Sequoia 204
Serapias 84
Sesamum 21–31, 204; alatum 21, 25, 28, 29; angolense 21, 22, 24, 25; angustifolium 21, 22, 24; antirrhinoides 24; auriculatum 23, 24; biapiculatum 24; brasiliense 23, 24; caillei 24; calycinum 24; capanse 23, 24, 25, 28, 29;

denterii 24; grandiflorum 25, 28, 29; hendelottii 24; indicum 21, 22, 24, 25, 26, 28, 29, 263; spp malabaricum 24; laciniatum 24, 25; latifolium 24; lepidotum 24; ligitaloides 24; malabaricum 24; marlothii 23, 24; microcarpum 24; mombazense 24; occidentale 23, 25, 26; orientale 22, 263; ssp malabaricum 29; var malabaricum 28; pedaloides 24; prostratum 21, 24, 25, 28; radiatum 21, 23–26, 28; repense 24; rigidum 24; sabulosum 24; schenckii 23–25, 28, 29; schinzianum 23, 24; somalense 24; talbotii 24; thonnerii 24; trifoliatum 24; triphyllum 23, 24
Sesbania 204, 439; aculeata 176, 439; grandiflora 439; sesban 263
Setaria 204, 415; italica 8, 16
Shepherdia argentea 316
Shorea 204; robusta 263
Sida 204; humilis 263; rhombifolia 364; veronicaefolia 263
Simaba 351; cedron 364
Simaruba amara 386
Simmondsia 204
Siparuna guianensis 364; pauciflora 364
Sisarum Peruvianum 83
Sium sisarum 83
Sium suave 291
Smilacina stellata 309
Smilax 204; China 5; ovalifolia 263; zeylanica 263
Socratea 348, 349; durissima 364
Soja hispida 412
Solanum 204, 346, 439; ferox 263; incanum 217; jacquini 263; mammosum 364; melongena 9, 83, 263; quitoensis 364; rostratum 289; stramonifolium 263; surattense 263; triflorum 319; tuberosum 56; xanthocarpum 263
Solidago 204
Sophora secundiflora 77
Sorbus 204
Sorghum 14, 204; bicolor 219; subsp bicolor race bicolor 221; var bicolor race guinea 219; race kafir 219; nervosum 221; vulgare 263
Soymida febrifuga 264
Spartina 204
Spathiflorae 34
Spatholobus roxburghii 264
Spermacoce hispida 247, 264
Sphaeralcea coccinea 315
Spigelia anthelmia 364
Spilanthes 351; ocymifolia 364
Spinacia 204
Spirogyra 303
Spondias 204; mangifera 264; mombin 364; pinnata 264; purpurea 364
Stachys sieboldii 9, 16
Stemonaceae 34
Stephegyne parvifolia 258, 264
Sterculia 204; apetala 364; colorata 254, 264; urens 264; villosa 264
Sterospermum suaveolens 264
Stipa 204; comata 307; spartea 301
Stizolobium 204
Streblus asper 264
Streptomyces 204
Strophanthus 204
Strychnos 204; potatorum 264
Styrax 204
Suaeda fruticosa 439
Swertia chirata 254, 264
Swietenia 204
Syagrus 204
Symphoniaca 88
Symphoricarpos occidentalis 319
Symplocos racemosa 264
Syringa 204
Syzygium 204; cumini 253, 264; malaccense 280; operculatum 253, 264

Tagetes erecta 364
Talisia nervosa 364
Tamarindus 204; indica 264, 364, 386
Tanacetum 205
Taraxacum 205
Taxaceae 34
Taxodium 205
Taxus 93, 205; brevifolia 304
Tectona 205
Tephrosia 134, 364; candida 135; purpurea 135
Terminalia 205; arjuna 264; bellirica 264; catappa 15, 17, 364; chebula 264; tomentosa 265
Tetraclinis 205
Tetragastris panamensis 364
Tetragonia 205
Tetranthera monopetala 257, 265
Tetrapanax 205
Tetrapteris 205
Thalictrum dasycarpum 312; occidentale 312; sparsiflorum 312
Themeda gigantea 265
Theobroma 205, 346, 349; bicolor 364; cacao 350, 352, 353, 364; chocoense 365; purpureum 365
Theophrastus 86
Thermopsis montana 315; rhombifolia 315
Thespesia lampas 265
Thevetia peruviana 365
Thora 88
Thuga plicata 306
Thuja 205
Thymus 205
Thysanolaena acarifera 265; maxima 265
Tilia 205
Tillandsia 205, 291
Tocoyena pittieri 365
Toluifera pereirae 392
Torilis nodosa 153
Torulopsis 205
Townsendia sericea 322
Trachylobium 205
Tragia involucrata 265
Tragopogon 205
Trapa bispinosa 265; natans 10
Trianaeopiper contraverrugosa 365
Trianthema 439
Trichanthera gigantea 365
Trichomanes elegans 365
Trichosanthes anguina 13, 16
Trifolieae 113

XUM

Trifolium 205, 439
Triglochin maritima 306
Trigonella 205; foenum-graecum 265
Trilisa 205
Triticum 205, 346; aestivum 8, 403
Triumfetta rhomboidea 265
Tropaeolum 205; tuberosum 56
Tsuga 205
Tuber 205
Tubiflorae 36
Tussacia 351; friedrichsthaliana 365
Tylophora longifolia 265
Typha 205, 292; angustata 265; angustifolia 265; latifolia 96, 97, 99–101, 174, 306

Ullucus 205; tuberosus 56
Ulmus 205
Ulva 205
Uncaria 205
Uragoga emetica 365
Urena 205; sinuata 265
Urginea 205; maritima 388
Urtica 83; gracilis 311; pentandra 261, 265
Ustilago esculenta 12

Vaccinium 206; membranaceum 318
Valdensis 88
Valeriana 206; edulis 320; septentrionalis 320; sitchensis 320
Valerianella dentata 153; locusta 153; olitoria 153
Vanda roxburghii 265
Vanilla 206; fragrans 365
Vateria 206
Ventilago calyculata 265
Veratrum album 92; eschscholtzii 309
Veronia anthelmintica 249, 265; cinera 266
Vetiveria 206; zizanioides 266
Vicia 113, 206
Vigna 206; catjang 266; cylindrica 266; sinensis 115; vexillata 266
Viola 86, 153, 206; tricolor 84; verucunda 9, 16
Virola 62, 63, f64, 77, 206; sebifera 365; theiodora 62
Viscum album 92; articulatum 266; attenuatum 266
Vitex alata 266; negundo 266; peduncularis 266
Vitex peduncularis var roxburghiana 266
Vitis 154, 206; adnata 249, 266; latifolia 266; tomentosa 266; vinifera 153

Walsura piscidia 135
Warszewiczia 351; coccinea 365
Wattakaka volubilis 252, 266
Welfia 348; regia 365
Wendlandia tinctoria 266
Wettinia 348
Wikstroemia 206; indica 135
Wittia panamensis 365
Woodfordia floribunda 266; fruticosa 255, 266, 439
Wrightia tomentosa 266

Xanthium strumarium 9, 16
Xanthorrhoea 206
Xanthosoma 206; helleborifolium 365; violaceum 365
Xerophyllum tenax 309
Xiphidium caeruleum 365
Xylia 206

Yucca 206; glauca 309; gloriosa 267

Zamia 206; chigua 365
Zantedeschia aethiopica 290
Zanthoxylum 206; alatum 135
Zea 206, 346, 349; mays 220, 267, 351, 352, 353, 366
Zehneria umbellata 258, 267
Zingiber 206, 346; cassumunar 267; officinale 9, 15, 17, 213, 267, 351, 366; zerumbet 267
Zizania 12, 206; aquatica 301, 307; caduciflora 10; latifolia 10, 12, 16
Zizyphus 206; jujuba 9, 16, 267; oenoplia 267; rugosa 267; xylocarpa 267; xylopyra 267
Zornia diphylla 267
Zygadenus gramineus 309

ECONOMIC BOTANY

Devoted to Applied Botany and Plant Utilization

Founded by

Edmund H. Fulling

Publication of The Society for Economic Botany

VOLUME XXIV

1970

Published for The Society

by

THE NEW YORK BOTANICAL GARDEN

Printed by

The Allen Press, Inc.

Lawrence, Kansas

XUM

TABLE OF CONTENTS

NUMBER 1

January–March 1970

Notice 1

The Origin of Cultivated Plants in Southeast Asia — *Hui-Lin Li* 3

Sesame: Its Uses, Botany, Cytogenetics, and Origin — *N. M. Nayar and K. L. Mehra* 20

Notes on the Cultural Extent of the Use of Yajé (*Banisteriopsis Caapi*) among the Indians of the Vaupés, Colombia — *G. Reichel-Dolmatoff* 32

Some Notes on the Distribution of Alkaloids in the Plant Kingdom — *Robert F. Raffauf* 34

Economic Uses of Eastern Red Cedar — *Thomas E. Hemmerly* 39

Catharanthus Alkaloids. XXIII. The Isolation of Tetrahydroalstonine, Vindorosine, and Ursolic Acid from *C. trichophyllus* — *H. K. Kim, R. N. Blomster, H. H. S. Fong, and N. R. Farnsworth* 42

A Study of the Cyanogenetic Content and Toxicity of the Fruit of Selected Species of *Cotoneaster* — *Robert H. Tidwell, Jack L. Beal, Dhanooprasad G. Patel, Arthur Tye, and Popat N. Patil* 47

Cyanide Analyses of Peaches — *Albert R. Machel and Charles I. Dorsett* 51

New Plants for Conservation — *W. Curtis Sharp* 53

Ethnobotany of Cañihua (*Chenopodium pallidicaule*), Rustic Seed Crop of the Altiplano — *Daniel W. Gade* 55

Notes on the Use of Plant Hallucinogens in Amazonian Brazil — *Ghillean T. Prance* 62

Breadstuff from Fir (*Abies balsamea*) — *Erika E. Gaertner* 69

Old and New World Narcotics: A Statistical Question and an Ethnological Reply — *Weston La Barre* 73

Plant Poisons in Shakespeare — *Edward Tabor* 81

Vascular Aquatic Plants for Mineral Nutrient Removal from Polluted Waters — *Claude E. Boyd* 95

Books

Textbook of Dendrology—104; Producing Vegetable Crops—104; An Introduction to Plant Taxonomy—106; Spring Flora of Minnesota—106; Some Common Mosses of British Columbia—107; The Flora of New England—107; Manual de Plantas Económicas de Bolivia—107; Xylotomy of the Living Cycads with a Description of Their Leaves and Epidermis—108; The Book of Spices—109; Rocky Mountain Trees—110; Commercial Vegetable Growing—110.

NUMBER 2

April-June 1970

Announcement 207

Seed Proteases and Protease Inhibitors — *Joseph M. Dechary* 113

The Perique Tobacco Industry of St. James Parish, Louisiana: A World Monopoly — *William C. Rense* 123

The Origins of Agriculture — *J. G. Hawkes* 131

Indian Piscicidal Plants — *S. S. Lamba* 134

Further Observations on the Bacteriology of Jute Retting — *M. Jalaluddin* 137

The Southern Pines of the United States — *Herbert S. Sternitzke and Thomas C. Nelson* 142

Seeds from a Medieval Sewer in Woolster Street, Plymouth — *R. W. Dennell* 151

Our Hardy Hibiscus Species as Ornamentals — *Harold F. Winters* 155

Dendrobium in Chinese Medicine — *Shui-Ying Hu* 165

Utilization of Saline-Alkali Soil without prior Reclamation—*Rosa damascena*, its Botany, Cultivation and Utilization — *L. B. Singh* 175

Siona Use of Chambira Palm Fiber — *Margaret A. Wheeler* 180

Cubeo Acculturation to Coca and Its Social Implications — *J. K. Salser, Jr.* 182

Muinane Diagnostic Use of Narcotics — *James W. Walton* 187

The Meaning of Generic Names of Important Economic Plants — *Richard Lynn Marafioti* 189

Melegueta Pepper — *A. M. van Harten* 208

Tentative Correlations of Plant Usage and Esophageal Cancer Zones — *Julia F. Morton* 217

Book Reviews

Rauschgift-Drogen—227; Handbook of North American Nut Trees—227; The Tepehuan of Chihuahua: Their Material Culture—228; The Biology of Parasitic Flowering Plants—229; Overcoming World Hunger—229; Nightshades, the Paradoxical Plants—230; Evolution and Phylogeny of Flowering Plants. Dicotyledons: Facts and Theory—231.

NUMBER 3

July–September 1970

Notice—An Obituary 368

Notice—Symposium on Wood Extractives 368

Blue Mahoe, a Case of Incipient Plant Domestication — *Clarissa T. Kimber* 233

Medicinal Plant-lore of the Santals — *S. K. Jain and C. R. Tarafder* 241

Notes on Some Medicinal Plants of Fiji — *Michael A. Weiner* 279

Influence of Growth-Stage of *Anagallis arvensis* on Its Fungitoxicity — *P. N. Thapliyal and Y. L. Nene* 283

The Ecology of Gathering in a Mexican Farming Region — *Gene C. Wilken* 286

Banisteriopsis in Witchcraft and Healing Activities in Iquitos, Peru — *Marlene Dobkin de Ríos* 296

Blackfoot Indian Utilization of the Flora of the Northwestern Great Plains — *Alex Johnston* 301

A Cytomorphological Study of Male Sterility in a Mutant of *Cucurbita maxima* Duch. — *R. R. Francis and W. P. Bemis* 325

The Edible Species of *Passiflora* — *Franklin W. Martin and Henry Y. Nakasone* 333

Ethnobotanical Observations on the Chóco Indians — *James A. Duke* 344

Book Review

The Potatoes of Argentina, Brazil, Paraguay and Uruguay—367.

XUM

NUMBER 4

October–December 1970

Effect of 2-Chloroethylphosphonic Acid on Enzyme Induction in Barley Endosperm — *Robert M. Devlin and Richard P. Cunningham* 369

Obituary 373

The Compendium Pharmaceuticum of Jean Francois Coste — *Harold J. Abrahams* 374

Notice 398

Jalap or Veracruz Jalap and its Allies — *Louis O. Williams* 399

Notice 402

Some Characteristics of a Growth Inhibitory Factor in Yaupon Fruit — *J. D. Diaz-Colon, J. R. Baur, and R. W. Bovey* 403

On the Domestication of the Soybean — *T. Hymowitz* 408

The Role of Coca in the History, Religion, and Medicine of South American Indians — *Richard T. Martin* 422

Notice 438

Utilisation of Saline-Alkali Soils for Agro-Industry without prior Reclamation — *L. B. Singh* 439

Notice 442

Olive Production in Greece — *Hudson T. Hartmann and Plato G. Bougas* 443

A Yellow Food Dye—*Escobedia* — *Louis O. Williams* 459

The Carob Tree and its Importance in the Agricultural Economy of Cyprus — *W. N. L. Davies* 460

Plant Explorer of the Americas — *Melvin J. Frost and B. Ira Judd* 471

Book Reviews 479

Obituary 487

Notice 491

Obituary 492

Notice 494

Notice 495

Index 496

Book Reviews

Plant Variation and Evolution—479; Flowering Plant. Origin and Dispersal—480; The Wealth of India: Raw Materials—480; Food in Antiquity—481; Wild Rice—481; The Pharmacology of Psychotherapeutic Drugs—481; Mysterious Grain—Science in Search—482; Tobacco—482; The Induction of Flowering—484; Current Topics in Plant Science—484; Species—485; Plants of the Chicago Region—486; Plant Names—486; Lichens—487; Myxomycetes—488; Aquatic Plants—489.

XUM